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## АПвЭБВ-20 3х300 ТУ У 31.3-00214534-017-2003

Three-core power cables with aluminium conductors, with XLPE, steel-tape armoured, with PVC compound outer sheath

For the cable of this mark correspond the foreign-made analogues: A2XSEYBY (DE) • AI/SC/XLPE/SC/CuT/STA/PVC (GB) • AΠ<sub>B</sub>6B (RU) Technical cable requirements correspond to IEC 60502-2

Cables are used for laying:

- in places, where mechanical impacts on cable are possible, except tensile forces
- in premises, tunnels, ducts, mines, dry soil and outdoor under shelter
- single laying

It is possible to manufacture cables with an integrated fiber-optic module. Order entry example:

АПвЭБВ-20 3x300/25 (ОМ) ТУ У 31.3-00214534-017-2003 In conjunction with the DTS system, the integrated fiber-optic module can act as a distributed cable line temperature sensor.

It is possible to manufacture cable with sealed conductors. Order entry example: АПвЭБВ-20 3х300/25 (г) ТУ У 31.3-00214534-017-2003

Fire safety code in accordance with ДСТУ 4809:2007: ПБ10000000

Products of this mark meet the requirements:

· single wire cable flame retardance





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## **TECHNICAL SPECIFICATIONS**

Rated voltage	kV	20
Maximum voltage	kV kV	24
Number and rated area of conductors	 mm <sup>2</sup>	3 x 300
Insulation thikness		5.5
	mm mm²	25
Minimum screen cross-section	mm²	
Permissible short circuit current across the screen of	kA	5.1
minimum cross-section		
Maximum permissible short-circuit current in core	kA	28.2
Permissible continious current rating *		
• by aerial laying	Α	472
• by burial	А	380
Partial discharge factor for rated voltage, not more than	рС	6
Maximum permissible conductor temperature		
Continious	°C	+90
in emergency operation	°C	+130
at short circuit	°C	+250
Operating temperature range (in climate version NF)	°C	-50 +50
Operating temperature range (in climate version T)	°C	-25 +65
Minimum bending radius by laying	mm	1456
Rated outer diameter of the cable (for reference) **	mm	91
Cable weight (approximate)	kg/km	10700
Rated factory cable length and gross weight of the delivery	m, t	# 25УД-90: 305 • 4.8
on the drums ***		# 26УД-100: 457 • 6.7
		# 30УД-130: 639 • 9.7
Notoo		

Notes:

When ordering it is neccesary to agree the factory length of the product with the manufacturer

\* Long permissible current loads are calculated for the following conditions: conductor temperature 90 °C, air temperature 30 °C, soil temperature 20 °C, load factor 1.0, thermal resistivity of soil 1.5 °K • m/W, laying depth in the ground 0.8 m, shields are grounded at both ends of the line

 $^{**}$  The external diameter may differ from the rated up to  $\pm$  10 %

\*\*\* Отклонение фактической массы брутто от указанного значения может составлять ± 7 %



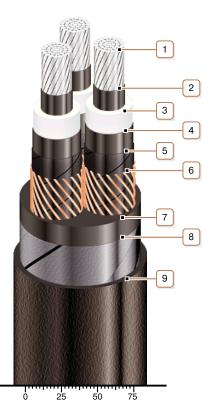


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### CONSTRUCTION

- 1. Aluminium multiwire compacted conductor Note: It is possible to manufacture cable with sealed conductors.
- 2. Inner extruded semiconducting layer
- 3. XLPE insulation
- 4. Outer extruded semiconducting layer
- 5. Lapping layer of semiconductive swellable tape

#### 6. Copper screen

Note: It is possible to manufacture a cable with a fiber optic module built into the screen, including as a DTS system sensor

- 7. Extruded filling of PVC compound
- 8. Double galvanized steel-tape armour
- 9. PVC compound outer sheath

Note: Conductor twisting is not illustrated